Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-08-09** **Date: 29-12-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-08-09** **Date: 29-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 29-12-21

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-12-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-06-08-09** **Date: 29-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-06-08-09** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy M, No 172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-12-21
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.75	-
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-06-08-09** **Date: 30-12-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-12-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-12-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-06-08-09** **Date: 30-12-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS ON STRUCTURAL STEEL

Lab ID : CP-2022-06-08-09 **Date: 30-12-2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division.

Agency : Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092.

Customer's Reference : BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-2022

Type/ Description of Sample* : ISMB 200 @ 54.6 Kg/m

Reference to BIS codes : IS 2062: 2011, IS 1608-2005(RA 2011), IS 1599-2012.

Date of testing : 28-12-2022

SL.NO	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Weight/Meter	54.6 Kg /m	–	
2	Yeild Stress	275 N/mm^2	240 N/mm^2	
3	Tensile Strength	465 N/mm^2	410 N/mm^2	
4	Elongation Percentage	19%	Min 15%	
5	Bend Test	Satisfactory	–	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-06-08-09 Date: 03/02/2022
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-22
Customer ID	:	Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	03/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Footing	M25	27/01/2022	03/02/2022	151.80 X 150.44 X 151.94	22837	8.190	531.5	23.3	22.9
2	Footing	M25	27/01/2022	03/02/2022	151.33 X 150.48 X 149.46	22772	8.398	516.3	22.7	
3	Footing	M25	27/01/2022	03/02/2022	149.07 X 151.74 X 149.31	22620	8.852	517.9	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/02/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-01-22
Customer ID	:	Footing
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing	M25	27/01/2022	24/02/2022	149.48 X 150.33 X 149.45	22472	8.714	614.5	27.3	27.3
2	Footing	M25	27/01/2022	24/02/2022	151.96 X 151.91 X 150.42	23084	8.605	601.4	26.1	
3	Footing	M25	27/01/2022	24/02/2022	151.74 X 149.39 X 150.10	22669	8.780	642.9	28.4	

• The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-22
Customer ID	:	Pedestal
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	28/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pedestal	M25	21/02/2022	28/02/2022	150.85 X 151.15 X 151.67	22801	8.452	526.9	23.1	22.7
2	Pedestal	M25	21/02/2022	28/02/2022	151.26 X 151.32 X 150.05	22888	8.823	507.4	22.2	
3	Pedestal	M25	21/02/2022	28/02/2022	150.13 X 150.22 X 150.00	22553	8.994	517.4	22.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-02-22
Customer ID	:	Pedestal
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	21/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Pedestal	M25	21/02/2022	21/03/2022	151.08 X 149.99 X 151.64	22660	8.661	623.8	27.5	27.7
2	Pedestal	M25	21/02/2022	21/03/2022	151.06 X 151.31 X 149.78	22857	8.895	606.4	26.5	
3	Pedestal	M25	21/02/2022	21/03/2022	149.09 X 151.66 X 149.54	22611	8.536	655.0	29.0	

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Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/03/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-22
Customer ID	:	Plinth beam
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	28/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth beam	M25	21/03/2022	28/03/2022	150.53 X 151.90 X 149.28	22866	8.219	527.1	23.1	22.8
2	Plinth beam	M25	21/03/2022	28/03/2022	151.07 X 149.90 X 149.35	22644	8.781	509.5	22.5	
3	Plinth beam	M25	21/03/2022	28/03/2022	151.79 X 151.68 X 149.40	23024	8.473	523.2	22.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-06-08-09 **Date: 18/04/2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division

Agency : Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092

Customer's Reference : BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-22

Customer ID : Plinth beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth beam	M25	21/03/2022	18/04/2022	151.65 X 151.53 X 149.74	22980	8.861	637.9	27.8	27.5
2	Plinth beam	M25	21/03/2022	18/04/2022	149.68 X 149.19 X 150.08	22332	8.380	583.7	26.1	
3	Plinth beam	M25	21/03/2022	18/04/2022	151.64 X 149.74 X 151.36	22707	8.144	648.7	28.6	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Shelter Flooring
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Shelter Flooring	M15	05/05/2022	12/05/2022	150.09 X 150.89 X 150.57	22646	8.376	279.8	12.4	12.4
2	Shelter Flooring	M15	05/05/2022	12/05/2022	150.41 X 150.44 X 151.97	22627	8.370	287.2	12.7	
3	Shelter Flooring	M15	05/05/2022	12/05/2022	151.70 X 150.20 X 150.48	22786	8.304	278.1	12.2	

* The results obtained are satisfactory as per standard requirements

Note:

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All information furnished by Customer/Representative

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 12/05/2022

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-05-22
Customer ID	:	Shelter Flooring
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	12/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Shelter Flooring	M15	05/05/2022	12/05/2022	149.74 X 149.86 X 150.60	22441	8.348	279.8	12.5	12.6
2	Shelter Flooring	M15	05/05/2022	12/05/2022	150.30 X 151.02 X 150.11	22698	8.382	284.2	12.5	
3	Shelter Flooring	M15	05/05/2022	12/05/2022	149.83 X 151.75 X 149.53	22737	8.147	289.8	12.7	

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TEST RESULTS OF STEEL

Date: 29-12-21

Lab ID	:	CP-2022-06-08-09
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Providing Bus Shelters at Judicial Layout Central Mall opposite and Wheel and Axel of Yelahanka Satellite Town Sub Division
Agency	:	Sri Gangadhara Swamy.M, No.172,NTI Layout, 1st Phase, Rajeev Gandhinagara, Sahakaranagara Post, Kodigehalli, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-12-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2019
Date of test	:	28-12-21

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-06-08-09** **Date: 03-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-06-08-09

Date: 03-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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